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Title: **JP03261467A2: CANCER TREATING DEVICE**Derwent Title: Novel cancer-remedy device to radiate liver, spleen, etc. - composed of material, with acoustic chemical luminescence induced by supersonic waves in container [\[Derwent Record\]](#)

Country: JP Japan

Kind: A

Inventor: HIRAO ISAMI;

Assignee: OLYMPUS OPTICAL CO LTD
[News, Profiles, Stocks and More about this company](#)

Published / Filed: 1991-11-21 / 1990-03-13

Application Number: JP1990000061694

IPC Code: Advanced: A61B 10/00; A61B 18/00; A61N 5/06; G01N 21/76;
Core: more...
IPC-7: A61B 10/00; A61B 17/36; A61N 5/06; G01N 21/76;

Priority Number: 1990-03-13 JP1990000061694

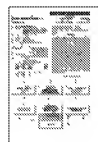
Abstract:

PURPOSE: To allow the repetitive treatments of the cancer generated in the deep part of a living body by using a light transparent member which allows the transmission of the rays emitted from an acoustochemical luminescence effect material to form a housing container which houses the acoustochemical luminescence effect material and providing a photostimulating semiconductor on the outside surface of the light transparent member.

CONSTITUTION: The cancer treating device body 2 is constituted of the container part 6 and the light transparent cap part 8. The acoustochemical luminescence effect material 12 is packed in a space part 4 of the container part 6. A semiconductor electrode 14 as the photostimulating semiconductor having a photocatalytic effect is provided on the outside surface of the light transparent cap part 8. A sheath 24 is plunged to a living dermal tissue 16 and the cancer treating device body 2 is detained in the cancer tissue 20 on the surface of the liver 18 by gripping pincers 28. Ultrasonic signals are oscillated by an ultrasonic oscillator 26 and are amplified by an amplifier 30. These signals are oscillated as ultrasonic waves from an ultrasonic oscillating element 36 of an ultrasonic oscillating probe 34. The cancer treating device body 2 near the cancer tissue 20 is irradiated with these ultrasonic waves via a pouch 38. The acoustochemical luminescence effect material 12 is irradiated with the ultrasonic waves and emits continuous light which kills the cancer tissue 20 in contact with the semiconductor electrode 14.

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Family: None

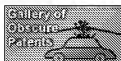
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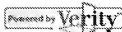
| PDF | Patent | Pub.Date | Inventor | Assignee | Title |
|---|-----------|------------|-----------------|-------------------------|---|
|  | US5944748 | 1999-08-31 | Mager; David | Light Medicine, Inc. | Photodynamic therapy apparatus and methods |

Other Abstract
Info:

CHEMABS 116(13)124082M CAN116(13)124082M DERABS C92-012062 DERC92-012062



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